



THE HANFORD SITE

Department Update

Brian Vance

Manager

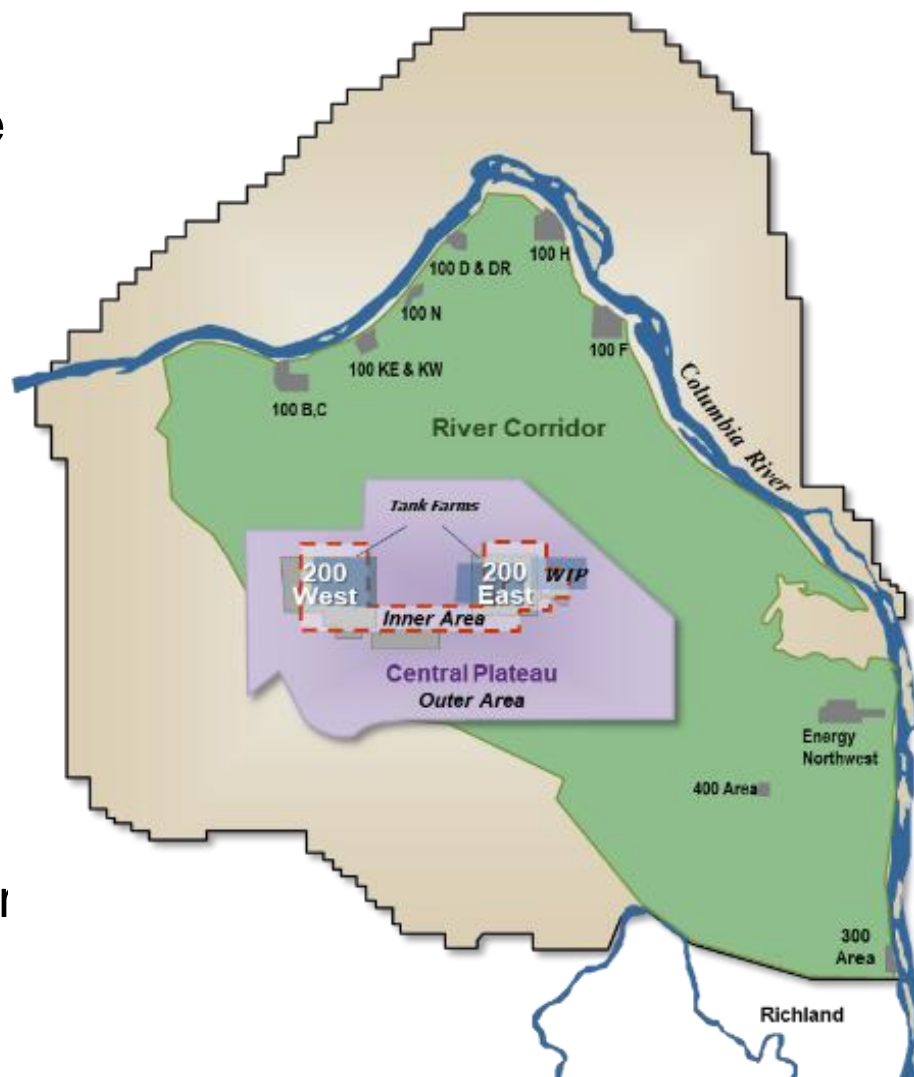
Office of River Protection
Richland Operations Office

23 March 2022

Mission: Safe, efficient and effective cleanup, protective of the workforce, the public and the environment

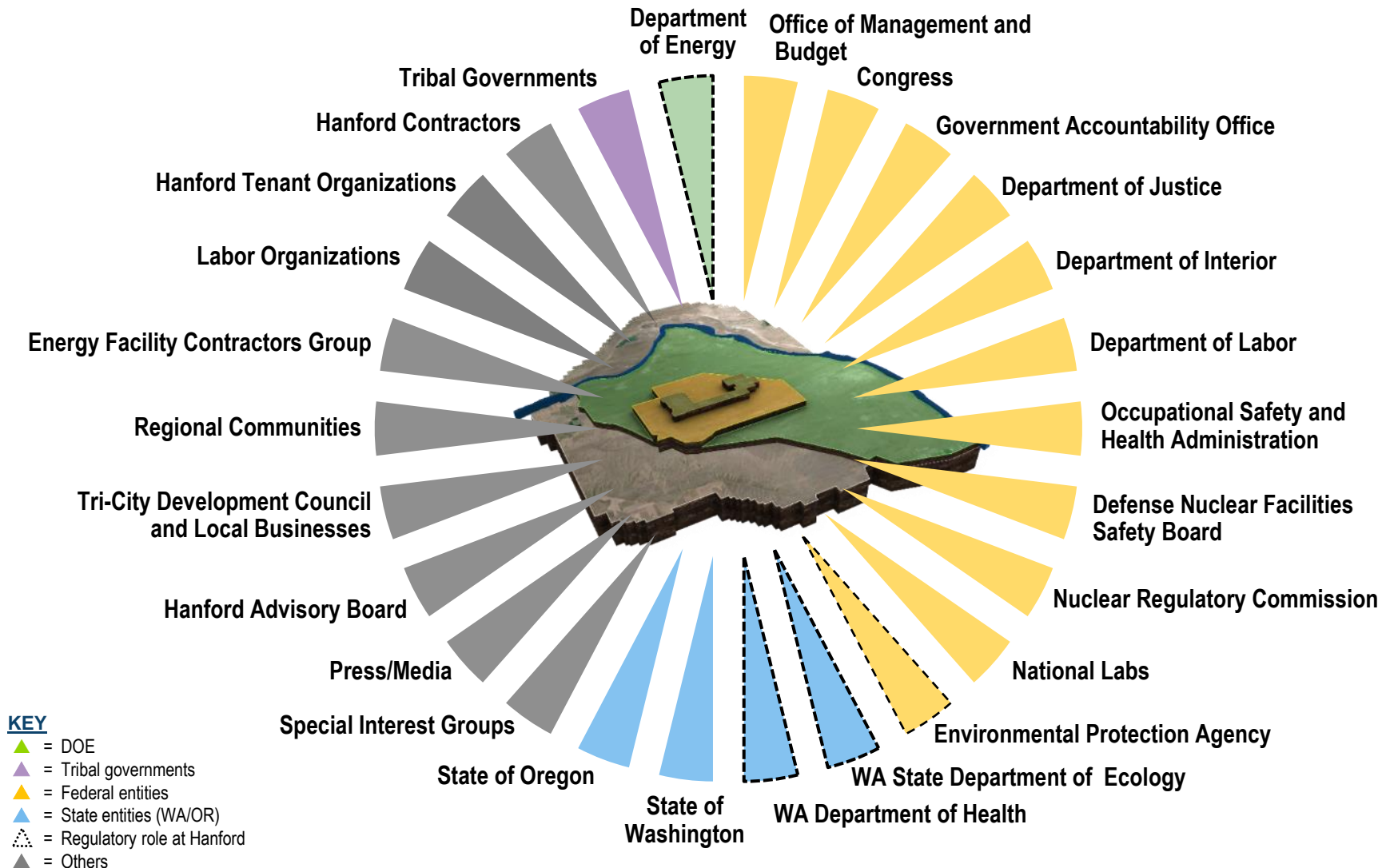
Key Site Activities:

- Safe and secure operations
- Manage, treat and disposition tank waste
- Stabilize aging structures
- Demolish retired facilities
- Remediate waste sites
- Treat contaminated groundwater
- Site Infrastructure management





Our Engagement Arena



- The Justice40 Initiative is a requirement of President Biden's Executive Order 14008, "Tackling the Climate Crisis at Home and Abroad"
- The Justice40 Initiative is a whole-of-government effort to deliver at least 40% of the overall benefits from certain Federal investments in seven key areas to disadvantaged communities that are marginalized, underserved and overburdened by pollution
- The seven areas of Federal investment covered by the Justice40 Initiative are:
 - Climate change
 - Clean energy and energy efficiency
 - Clean transportation
 - Affordable and sustainable housing
 - Training and workforce development
 - Remediation and reduction of legacy pollution
 - Development of critical clean water and wastewater infrastructure

- On July 20, 2021, the Interim Implementation Guidance for the Justice40 Initiative (OMB Justice 40 Interim Guidance) was released in accordance with Executive Order 14008.
- This guidance supports the Administration's comprehensive approach to advancing environmental justice
- Under the Justice40 Initiative, Federal agencies are directed to engage with states, Tribal Governments, including Pueblos, and local communities on directing the benefits of Federal investments to disadvantaged communities
- Federal agencies are directed to conduct robust stakeholder engagement and Tribal consultation as they implement their programs and the Justice40 Initiative

- Climate and Economic Justice Screening Tool (CEJST)
 - CEJST is being developed by the Council on Environmental Quality
 - A beta version is available for review and comment:
<https://screeningtool.geoplatform.gov/>
 - This beta version identifies a draft list of communities that are disadvantaged for the purposes of the Justice40 Initiative.
- OMB will issue updated Justice40 implementation guidance in the future, which will address the use of the CEJST and defining “disadvantaged communities”
- Environmental Justice Scorecard
 - OMB is developing and will publish an Environmental Justice Scorecard, detailing agency environmental justice performance measures, including efforts to achieve the goals of Justice 40 and delivering benefits to disadvantaged communities

Over 25 unique operations taking place simultaneously on a daily basis to support DFLAW mission

DFLAW uses >50MW of power per day
 * Equal use to 40,000 homes per day

Provides 4 different networks
 3 external servers
 Provides 1,100 radios per day

Information Technology

6 a.m. to midnight M-F
 7 a.m. to 4 p.m. on Saturday

Occupational Medical Facility

Produces 3.5 million gallons of water a day to DFLAW
 * City of Richland requires 3.8 million gallons of water per day

Water and Sewer Utilities

Process 4 verifications per year

222-S Laboratory

Emergency and Medical Service Support
 24/7 operations

Patrol Support
 24/7 operations

Analytical Laboratory
 Process 9 samples per day

Low-Activity Waste Facility
 Transfer per day 8,000 gallons to produce 30 metric tons of glass
 24/7 operations
 Producing a nominal 3.5 tons of material per day
 Heated to 2,100°F
 5,500 plant procedures
 21 tons of material per day
 3.615 feet from Tank AP-106 to EMF

Tank AP-106

Shut down 23 every days for column exchange
 Process 5 gallons a minute
 Transfer 7,200 gallons a day

Tank Side Cesium Removal

Immobilized Low-Activity Waste Transporters
 Containers are 4 feet in diameter
 7 feet tall
 over 7 tons

Tank AP-107

28 double-shell tanks
 53 million gallons of waste

Tank AP-105

AP-105 to AP-107 transfer

8-10 shipments daily of oil, bulk chemicals, parts and general supplies

Roadways

Effluent Management Facility (EMF)
 45,000 - 95,000 gallons of effluent 1-2 times a week

Liquid Effluent Retention Facility

Effluent Treatment Facility
 45 operational days per campaign
 7 days a week for 10 hours a day operations

742 feet
 1,545 feet

Integrated Disposal Facility

Travel 1.5 miles, nominally 5 containers per day

Where it all STARTS

Key Operations to Glass Storage

- Double-shell Tank to Double-shell Tank Transfer
- Double-shell Tank to Tank AP-107
- Tank AP-107 to Tank Side Cesium Removal
- Tank Side Cesium Removal to Tank AP-106
- EMF to Low-Activity Waste
- Glass container to Integrated Disposal Facility
- Secondary waste stream

■ Tank Farms ■ 222-S Laboratory ■ Waste Treatment and Immobilization Plant ■ Effluent Treatment Facility ■ Disposal Operations ■ Infrastructure Services ■ Occupational Medicine

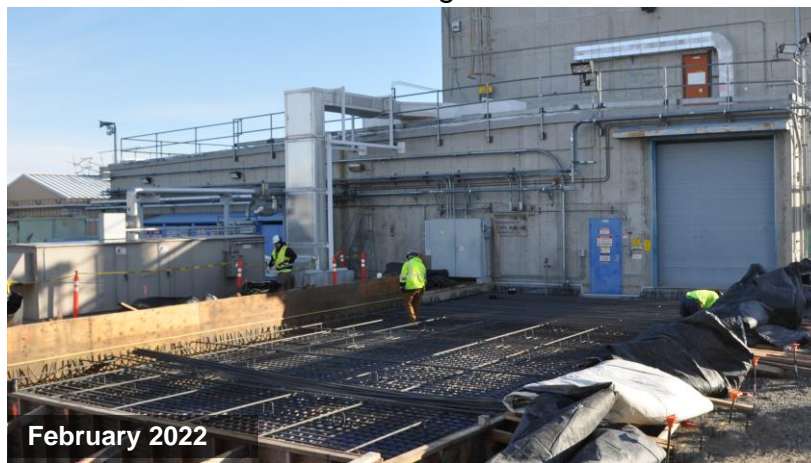




K West stack removal



324 Building airlock



WESF Truckport rebar

